

AGENCY OF NATURAL RESOURCES  
DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
WATERSHED MANAGEMENT DIVISION  
ONE NATIONAL LIFE DRIVE, MAIN BUILDING, 2<sup>ND</sup> FLOOR  
MONTPELIER, VT 05620-3522

FACT SHEET  
(April 2016)

**PRETREATMENT DISCHARGE PERMIT**

**PERMIT NO:** 3-1450  
**PIN:** NS95-0182

**NAME AND ADDRESS OF APPLICANT:**

Precision Valley Finishing, Inc.  
P.O. Box 480  
Springfield, VT 05156

**NAME AND ADDRESS OF FACILITY WHERE DISCHARGE OCCURS:**

Precision Valley Finishing, Inc.  
135 Main Street  
Springfield, Vermont

**RECEIVING MUNICIPAL WASTEWATER TREATMENT FACILITY:**

Springfield Wastewater Treatment Facility, Springfield, Vermont

**I. Proposed Action, Type of Facility, and Discharge Location**

The Vermont Agency of Natural Resources (Agency) received an application on June 4, 2013 for a pretreatment permit to discharge to the designated municipal wastewater treatment facility from the above named applicant. The facility is engaged in metal finishing. The discharge is from the facility to the municipal sewer system.

**II. Description of Discharge**

A quantitative description of the discharge in terms of significant effluent parameters is based on state and federal laws and regulations, the discharge permit application, and the recent self-monitoring data.

### III. Limitations and Conditions

The effluent limitations of the draft permit, the monitoring requirements, and any implementation schedule (if required), may be found on the following pages of the draft permit:

Effluent Limitations: Page 2  
Monitoring Requirements: Page 2

### IV. Facility History and Background

Precision Valley Finishing, Inc. is a "job shop" that performs various metal finishing operations, including plating (hexavalent, chromium, black oxide, and nickel), anodizing, and electropolishing processes. The facility is permitted for the discharge of treated rinse waters from the black oxide and nickel plating processes, and the anodizing process; process wastewaters from all other metal finishing activities are drummed and shipped off-site for disposal. The facility was previously subject to the Electroplating Point Source Category (40 CFR 413). When the categorical standards for Metal Finishing were proposed (1983) and promulgated, all facilities performing any of the identified metal finishing unit operations (listed in § 433.10(a)) were migrated and regulated under these new standards. Although existing job shop electroplaters were one of the two types of facilities that were allowed to remain covered by § 413, Precision Valley Finishing has changed processes/operations since the proposed § 433 standards (1983) and are therefore no longer considered an 'existing' facility to be allowed coverage under § 413. This facility is thus subject to the Metal Finishing Point Source Category, Subpart A (40 CFR 433.17).

The plating and anodizing rinse wastewaters are discharged into the Raw Waste Holding Tank prior to entering the pretreatment system. The pretreatment system consists of two conical bottom tanks, a plate and frame filter press, and an evaporator. The raw wastewater is pumped into a 1500 gallon tank for treatment by a hydroxide precipitation process and pH neutralization. The sludge from the precipitation process is gravity-drained to the Sludge Holding Tank and dewatered on the plate and frame filter press; the solids are drummed and shipped off-site for disposal. The supernatant is pumped from the 1500 gallon tank to a 1000 gallon tank. From this second tank, the treated wastewater is either discharged to the municipal sewer line or pumped to the evaporator tank.

**Evaporator:** The water content of the supernatant is significantly reduced in the evaporator. Once sufficiently concentrated, the remaining wastewater is drummed and shipped off-site for disposal.

**Discharge:** Treated process wastewater is discharged to the Town of Springfield Wastewater Treatment Facility. However, discharges are exceptionally rare since the facility installed the atmospheric evaporator in 1993. If there is a discharge, a sample port located on the discharge line would be used to collect the necessary compliance grab and composite samples. Effluent composite samples consist of a three grab samples taken at the beginning, approximately halfway, and at the end of batch discharges. The volume discharged can be accurately determined by the difference in water elevation measured in inches in the second tank.

V. Permit Basis and Explanation of Effluent Limitation Derivation

**Flow** – The total daily discharge volume limitation remains 1500 gallons per day, maximum.

**Monitoring and Reporting** – Monitoring is *only* required when there is a discharge to the Springfield Wastewater Treatment Facility. The Permittee shall note on the report forms if there was no discharge during a reporting period. Because of the infrequent nature of the discharge, the draft permit maintains the requirement of reporting on a quarterly basis.

**Total Metals** – In accordance with the federal regulations under 40 CFR 433.17, the draft permit contains effluent limitations for cadmium, chromium, copper, lead, nickel, silver, zinc, and cyanide. Because of the infrequent nature of the discharge, the draft permit maintains the requirement of monitoring on a quarterly basis.

**Total Toxic Organics (TTO)** – Federal regulations under 40 CFR 433 define a group of regulated organic compounds as total toxic organics (TTO). The regulations limit the daily maximum concentration of TTO in metal finishing wastestreams to 2.13 mg/L. Monitoring is only necessary for those compounds reasonably expected to be present in the wastewater. The permit sets a once per year monitoring requirement for TTO unless the certification statement in the permit is signed and submitted with each quarterly monitoring report.

**pH** – The effluent limitation for pH remains between 5.5 and 9.5 Standard Units, consistent with the Town of Springfield’s Sewer Ordinance, and shall be monitored with each batch discharge.

VI. Procedures for Formulation of Final Determinations

The public comment period for receiving comments on this draft permit is from **April 18 through May 18, 2016** during which time interested persons may submit their written views on the draft permit. All written comments received by 4:30 PM on **May 18, 2016** will be retained by the Agency and considered in the formulation of the final determination to issue, deny or modify the draft permit. The comment period may be extended at the discretion of the Agency.

Written comments should be sent to:

Agency of Natural Resources  
Department of Environmental Conservation  
Watershed Management Division  
One National Life Drive, Main Building, 2<sup>nd</sup> Floor  
Montpelier, VT 05620-3522

Comments may also be faxed to: 802-828-1544 or submitted by e-mail using the e-mail comment provisions included at <http://www.watershedmanagement.vt.gov/>

Any interested person or groups of persons may request or petition for a public hearing with respect to this draft permit. Any such request or petition for a public hearing shall be filed within the public comment period described above and shall indicate the interest of the party filing such request and the reasons why a hearing is warranted.

The Agency will hold a hearing if there is significant public interest in holding such a hearing. Any public hearing brought in response to such a request or petition will be held in the geographical area of the proposed discharge or other appropriate area, at the discretion of the Agency and may, as appropriate, consider related groups of draft permits. Any person may submit oral or written statements and data concerning the draft permit at the public hearing. The Agency may establish reasonable limits on the time allowed for oral statements and may require the submission of statements in writing. All statements, comments, and data presented at the public hearing will be retained by the Agency and considered in the formulation of the final determination to issue, deny, or modify the draft permit.

The complete application, draft permit, and other information are on file and may be inspected by appointment on the 2<sup>nd</sup> floor of the Main Building at One National Life Drive, Montpelier, Vermont. Copies may be obtained by calling 802-828-1535 from 7:45 AM to 4:30 PM Monday through Friday, and will be made at a cost based upon the current Secretary of State Official Fee Schedule for Copying Public Records. The draft permit and fact sheet may also be viewed on the Division's website at <http://www.watershedmanagement.vt.gov/>